



**DIGITAL PORTION SCALE**  
**PS-6**  
**OWNER'S MANUAL**

CARDINAL SCALE MFG. CO.

8528-M014-O1 Rev G

10/00

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## INTRODUCTION

The PS-6 Digital Portion Scale is a compact solid scale, designed to fill a variety of weighing needs. Please read this manual before attempting to put scale into use and keep it handy for future reference.

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## FCC COMPLIANCE STATEMENT

**WARNING!** This equipment generates, uses and can radiate radio frequency and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area may cause interference in which case the user will be responsible to take whatever measures necessary to correct the interference.

All rights reserved. Reproduction or use, without expressed written permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. While every precaution has been taken in the preparation of this manual, the Seller assumes no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from use of the information contained herein. All instructions and diagrams have been checked for accuracy and ease of application; however, success and safety in working with tools depend to a great extent upon the individual accuracy, skill and caution. For this reason the Seller is not able to guarantee the result of any procedure contained herein. Nor can they assume responsibility for any damage to property or injury to persons occasioned from the procedures. Persons engaging the procedures do so entirely at their own risk.

## SPECIFICATIONS

Dimensions .....	.7 1/2" W x 7" D x 2 3/4" H
Weight .....	4 lb (without batteries)
Construction .....	Steel enclosure with 304 stainless steel tray
Power .....	6 VDC four AA alkaline batteries 115 VAC 50/60 Hz with optional AC adapter
Display .....	3 1/2 digits in an LCD display with low battery indication and LED 1/4 ounce indicators
Capacity .....	.70 ounces x 1/4 ounce
Zero .....	Established during power-on lamp test and maintained automatically by zero-tracking circuitry
Tare .....	Key actuated full capacity tare feature

## CAUTION!!

This sensitive weighing instrument is equipped with a precision transducer. Properly handled, it will provide years of accurate weighing operation. Although this instrument is protected against moderate overloads, extreme overloading, dropping the instrument, or subjecting it to physical shock or abuse may damage or destroy the instrument.

**WARNING! The membrane keyboard is not to be operated with pointed objects (pencils, pens, fingernails, etc). Damage to keyboard resulting from this practice will NOT be covered under warranty.**

Serial Number \_\_\_\_\_

Date of Purchase \_\_\_\_\_

Purchased From \_\_\_\_\_

### PRECAUTIONS

Before using this instrument, read this manual and pay special attention to all "WARNING" symbols:



IMPORTANT



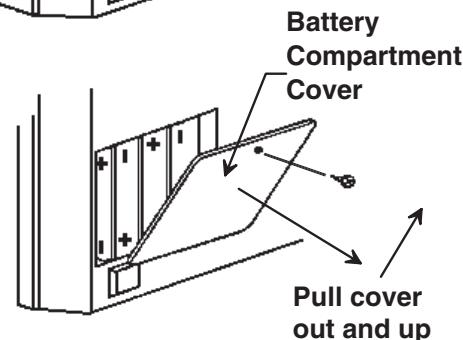
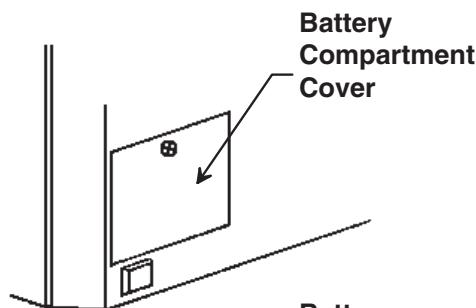
## INSTALLATION

1. Remove the scale from its shipping container and inspect it for shipping damage. Should evidence of damage be found, the carrier should be contacted at once. Retain the shipping container for future storage or shipment of the scale.
2. Install the batteries. Refer to BATTERY REPLACEMENT section. If batteries are not to be used, plug the optional AC power adapter into the power jack on the back of the scale.
3. Place the scale on a stable, vibration-free location away from direct sunlight and any rapidly moving air source. If the AC power adapter is being used, make certain the cord is stored out of the way of normal traffic.
4. Plug the optional AC power adapter (if used) into a 115 VAC 50/60 HZ grounded wall outlet.
5. The scale is now ready for use.

## BATTERY REPLACEMENT

This instrument is designed for operation from either four (4) AA Alkaline batteries or an optional AC power adapter. A low battery signal is provided in the weight display to indicate when the batteries should be replaced. Remember to use only size AA Alkaline batteries in the instrument.

1. Turn the scale bottom side up and remove the single screw from the battery compartment cover. Remove the cover from the base by lifting up and pulling outward as shown.
2. Remove the old batteries and replace with fresh ones. Make certain the + and - ends of the batteries match the positions shown on the scale circuit boards as shown. Replace the battery compartment cover and retaining screw.



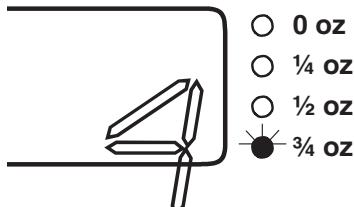
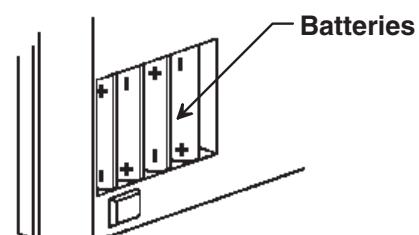
## OPERATION

1. Press the **ON-TARE** key to turn on the scale.
2. Place the item to be weighed on the scale tray.
3. Wait a brief moment, your PS-6 scale shows whole ounces by digital display. Red indicator lights illuminate to show the nearest fraction of an ounce.

There are 4 red indicator lights:

- 0 oz - for weight under  $\frac{1}{4}$  ounce and nearest to 0.
- $\frac{1}{4}$  oz - for weight nearest to  $\frac{1}{4}$  ounce.
- $\frac{1}{2}$  oz - for weight nearest to  $\frac{1}{2}$  ounce.
- $\frac{3}{4}$  oz - for weight nearest to  $\frac{3}{4}$  ounce.

4. To re-ZERO the weight display, press the **ON-TARE** key and proceed. The scale will re-ZERO until the full capacity (70 ounces) is reached.



## AUTOMATIC SHUT-OFF FEATURE

This scale is equipped with an automatic shut-off feature that helps prolong battery life by turning the scale off after a predetermined period of inactivity. To turn the scale back on you must press the **ON-TARE** key. The automatic shut-off feature is activated during the setup and calibration procedure and can be set for 1, 2, 5, 10, or 15 minutes of inactivity before the scale will automatically shut off. The automatic shut-off feature may be disabled by selecting **OFF** during setup and calibration procedure.

# DISPLAY CODES

*CAL*

**CALIBRATION REQUIRED** - Indicates improper stored calibration data, calibration is necessary.

*OC*

**OVER CAPACITY** - Indicates a weight exceeding the capacity of scale has been placed on the scale tray.

*Err*

**ERROR** - NOV-RAM test failure.

*Erd*

**ANALOG FAILURE** - This could mean a damaged or defective load cell, a failed component in the analog circuitry of the scale or the platform isn't on or is on incorrectly.

## SETUP AND CALIBRATION

Your scale has been thoroughly tested and calibrated before being shipped to you and should not require adjustment. In the event the scale should need re-calibration, the following calibration procedure should be performed. To maintain the scale's high degree of accuracy, it is recommended that a qualified technician with certified test weights re-calibrate the scale.

In order to perform Setup and Calibration, it is necessary to remove the "Do Not Remove" sticker from the lower right side of the scale. With the sticker removed, locate the Setup and Calibration switch in the opening closest to the front of the scale. Refer to the figure on the next page.



**NOTE:** If operating from batteries, install the batteries making certain that they are positioned in accordance with the drawing on the circuit board. If using the optional AC power adapter, insert the plug into the jack on the back of the scale.

## BEGIN SETUP and CALIBRATION

1. Making certain the scale tray is empty, press and hold the setup and calibration switch located on the lower right side of the scale. Refer to the figure on the next page.
2. Press the **ON/TARE** key to turn the scale on. Release the setup and calibration switch when the display is showing *SCR*.

### SCALE MODEL

The display will show *SCR*. Press the hidden key to display the current setting. For a PS-6 the display should show *P-6*. Press the hidden key until *P-6* is displayed. Press the **ON/TARE** key to save the setting.

### CALIBRATION

The display will show *CAL*. Press the hidden key to display the current setting. To calibrate the scale, press the hidden key until *YES* is displayed, then press the **ON/TARE** key. The display will change to *L0d*.

To skip calibration, press the hidden key until *no* is displayed, then press the **ON/TARE** key to continue the setup.

### LOAD WEIGHT

With the display will showing *L0d*, place a (2) lb certified test weight on the scale tray. Allow approximately five seconds for the scale to stabilize. Press the **ON/TARE** key to start the calibration. Dashes will be displayed from the left to the right of the display momentarily, then the display will change to *uLd*.

## SETUP AND CALIBRATION, Cont.

### UNLOAD WEIGHT

With the display showing *uLd*, remove the 2 lb test weight from the scale tray. Allow approximately five seconds for the scale to stabilize, then press the **ON/TARE** key to continue the calibration. Dashes will be displayed from the left to the right of the display momentarily, then the display will change to *RSH*.



If *ErR* is displayed during the *L0d* or *uLd* calibration sequence, remove the test weight from the scale and verify that it is the correct weight (2 lbs) or insure that the scale is empty and nothing is touching the scale tray. The display will return to

### AUTOMATIC SHUTOFF

With the display showing *RSH*, press the hidden key to display the current setting. Press the hidden key until the desired number of minutes of inactivity before the scale will automatically shutoff is displayed. Values of 1, 2, 5, 10, or 15 minutes or OFF are available. Selecting OFF will disable the automatic shutoff feature. Press the **ON / TARE** key to save the setting.

### POWER UP ZERO

The display will show *Pu0*. Press the hidden key to display the current setting. Press the hidden key to select *YES* to enable or *no* to disable. Press the **ON / TARE** key to save the setting.

### DONE

The scale will briefly display *DNE*, then reset to the Operation weight mode.

## SETUP REVIEW

The Setup Review mode allows you to review and change the Automatic Shutoff operational parameters as desired without having to enter the setup and calibration mode. To enter the setup review mode, you need to turn the scale off by pressing the hidden and **ON-TARE** keys simultaneously and then pressing and holding the **ON-TARE** key until the red indicator for 0 oz begins to flash. After the red indicator begins to flash, release the **ON-TARE** key. The display will show *RSH*, the prompt for automatic shutoff. Refer to the instructions listed in the Setup and Calibration section for information on how to change the Automatic Shutoff setting.

